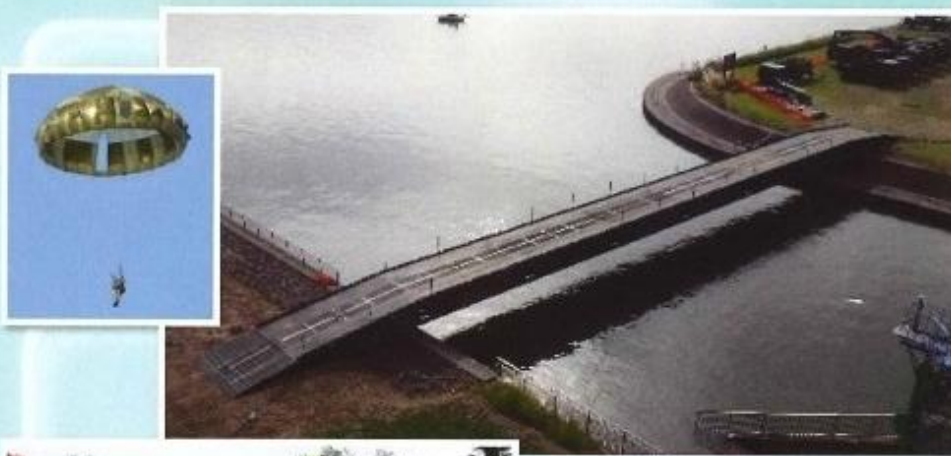


# Introduction to Japan Self-Defense Force's Equipment

Reference Guide for Japanese Defense  
Production and Technological Bases



**Memo**

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Published by : Acquisition, Technology & Logistics Agency, MOD  
(September 2018)

**Ministry of Defense, Japan**

\* This leaflet is a reference guide for the purpose of introducing Japan's various defense production and technological bases, showing JSDF's equipment as illustrative examples.

# I Heavy Weapons/Ordnance

## Type 12 Surface-to-Ship Missile



| Performance/Specifications |                                   |
|----------------------------|-----------------------------------|
| Total length               | Approx. 5.0 m                     |
| Missile body diameter      | Approx. 35 cm                     |
| Weight                     | 700 kg                            |
| Manufacturer               | Mitsubishi Heavy Industries, Ltd. |

The missile is designed to hit the target, by passing over hillsides or flying at a low altitude above the sea, along a preprogrammed course.

# II Vehicle

## Engine, transmission, and autoloader for Type 10 Tank

| Performance/Specifications |  |  |
|----------------------------|--|--|
| Engine                     | Type   | Water-cooled 4-cycle 8-cylinder              |
|                            | Maximum output   | 1,200 hp                                     |
| Transmission               | Type   | Automatic continuously variable transmission |
| Automatic loader           | High-speed, high-reliability automatic loader                          |  |
| Manufacturers              | Mitsubishi Heavy Industries, Ltd. Japan Steel Works, Ltd. (gun barrel) |  |

Engine



Transmission



Automatic loader



Type 10 Tank

## 3·1/2 t Truck



| Performance/Specifications |                    |
|----------------------------|--------------------|
| Riding capacity            | 2 + 22 persons     |
| Total length               | Approx. 7.2 m      |
| Total width                | Approx. 2.5 m      |
| Total height               | Approx. 3.2 m      |
| Weight                     | Approx. 8.5 t      |
| Carrying capacity          | 6 t                |
| Maximum speed              | 105 km/h           |
| Manufacturer               | Isuzu Motors, Ltd. |

# III Engineering Equipment

## Type 07 Mobility Support Bridge

| Performance/Specifications |               |
|----------------------------|---------------|
| Riding capacity            | 3 persons     |
| Total length               | 11.0 m        |
| Total width                | 3.0 m         |
| Total height               | 3.7 m         |
| Weight                     | 25 t          |
| Maximum speed              | 85 km/h       |
| Bridge length              | 60 m          |
| Manufacturer               | Hitachi, Ltd. |

Capable of building a bridge, 60m maximum length, without bridge pier.



## Lifesaving System II



### Performance/Specifications

- Composition
- ① Air jack
  - ② Engine cutter
  - ③ Engine-driven rock drill
  - ④ Storage Container
  - ⑤ Generator for containers
  - ⑥ Megaphone with a siren
  - ⑦ Chainsaw
  - ⑧ Filter regenerator
  - ⑨ Lighting tool for rescue work
  - ⑩ Rescue rope
  - ⑪ Hydraulic equipment for rescue
  - ⑫ Rescue guiding rod 45
  - ⑬ Portable toilet
  - ⑭ Electroscop
  - ⑮ Lighting tool for wide-area work
  - ⑯ Manually operated winch
  - ⑰ Foldable handcart
  - ⑱ Carriage dolly
  - ⑲ Iron wire cutting scissors
  - ⑳ Battery-powered headlight
  - ㉑ Tool for searching destroyed buildings
  - ㉒ Backpack fire extinguisher
  - ㉓ Disaster-preventive working mask and dust-proof glasses set
  - ㉔ All-purpose carrier
  - ㉕ Hydraulic cutter
  - ㉖ Hydraulic jack

These devices are designed for use in searching for or rescuing victims from collapsed buildings, etc.

## IV Aircraft

### UH-X New Utility Helicopter

(Image)



### Performance/Specifications

|                 |  |
|-----------------|--|
| Riding capacity | 2 + 11 persons   |
| Total length    | Approx. 13 m   |
| Total width     | Approx. 3 m  |
| Total height    | Approx. 4 m  |
| Weight          | Approx. 3.4 t  |
| Manufacturer    | SUBARU Corporation<br>Bell Textron Inc.<br>(Joint development) |
| Remarks         | Under development<br>(Scheduled for completion in FY2019.)     |

## V Communication/Electronic Equipment

### JTPS-P14 Air Search Radar

### Performance/Specifications

|                |                                 |
|----------------|---------------------------------|
| Frequency      | S-band                          |
| Antenna        | Phased array                    |
| Display system | PPI/PSI                         |
| Total length   | Approx. 6 m                     |
| Depth          | Approx. 2.4 m                   |
| Total height   | Approx. 2.5 m                   |
| Weight         | Approx. 4 t                     |
| Manufacturer   | Mitsubishi Electric Corporation |



## VI Quartermaster Equipment

### Type 13 Airborne Parachute



| Performance/Specifications |                              |
|----------------------------|------------------------------|
| Parachute body diameter    | Approx. 12 m                 |
| Weight                     | Approx. 18 kg                |
| Manufacturer               | Fujikura Parachute Co., Ltd. |

Keeping a good balance of air safety with improved mutual resilience and landing safety attained through improved maneuverability, this parachute enables safe and quick dense group drops, allows an organization to diversify its missions.

### Water Purification Set, Reverse Osmosis II

| Performance/Specifications  |   |
|-----------------------------|---|
| Composition                 | Water treatment equipment, water pump, water storage unit, etc. |
| Water purification capacity | 30 t or more/day  |
| Lifting height              | 18 m  |
| Rate of flow                | 150 L/min   |
| Water storage capacity      | 10 t  |
| Manufacturer                | NEC Facilities, Ltd.  |



This set enables one to make drinking water through filtering freshwater and seawater.

## VII Chemical Equipment

### Type 18 Personal Protective Equipment (including Protective Mask)



| Performance/Specifications |   |
|----------------------------|---|
| Protective performance     | Protection against toxic, chemical and biochemical agents, and radioactive substances |
| Protective mask            | Monocular<br>2 canisters  |
| Manufacturers              | Toyobo Co., Ltd.<br>Koken, Ltd.<br>(protective mask)                                  |

Reduces the strain on the human body with its wide field of view, low respiratory resistance, and lightweight design.

## VIII Medical Equipment

### Field Operation System

| Performance/Specifications |   |
|----------------------------|---|
| Composition                | Surgical operation unit, surgery preparation unit, sterilization unit, sanitary supply unit |
| Vehicles, etc.             | 3·1/2 t truck, 1 t trailer for generators, 1 t trailer for water supply                     |
| Manufacturers              | Ebara Jitsugyo, Co., Ltd.<br>Nippon Trex Co., Ltd.  |

